

METHOD AND APPARATUS FOR A MOBILE NODE TO MAINTAIN LOCATION PRIVACY FROM SELECTED CORRESPONDENT NODES

ABSTRACT OF THE DISCLOSURE

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An IP mobility solution for mobile network(s) that combines features of IP multicast and mobile IPv6. The mobile network defines a mobile router (106) attached to one or more mobile network hosts (102). Upon movement of the mobile network from a home network to a foreign network, the mobile router
10 obtains a multicast care of address on behalf of the attached mobile network hosts and creates a binding between the mobile subnet prefix and the multicast care of address. The mobile router communicates the binding information, via binding update messages, to a home agent (150) and to selected correspondent nodes (152) consistent with requested privacy attributes of the mobile network hosts.
15 The privacy attributes allow the mobile network hosts to maintain the privacy of their care of address (and implicitly, their location) relative to certain correspondent nodes.